

AMENDMENTS TO THE CLAIMS

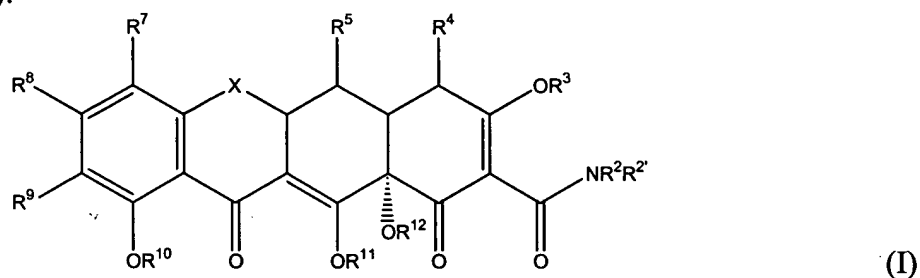
This listing of claims will replace all prior versions of the claims and listing of the claims in the application:

1. **(Original)** A method for treating a subject for a DTMR, comprising:
 administering to said subject an effective amount of a tetracycline compound, such
that said DTMR is treated.
2. **(Original)** The method of claim 1, wherein said effective amount is effective to
modulate translation of said subject's RNA.
3. **(Original)** The method of claim 1, wherein said effective amount is effective to
modulate the half-life of said subject's RNA.
4. **(Original)** The method of claim 1, wherein said effective amount is effective to affect
message translocation.
5. **(Original)** The method of claim 1, wherein said effective amount is effective to
modulate the binding of proteins to said subject's RNA.
6. **(Original)** The method of claim 1, wherein said effective amount is effective to
modulate splicing of said subject's RNA.
7. **(Cancelled)**
8. **(Original)** The method of claim 1, wherein said subject is an animal.
9. **(Cancelled)**
10. **(Original)** The method of claim 7, wherein the amount of at least one protein is
modulated in the subject.

11. **(Original)** The method of claim 1, wherein the tetracycline compound is a substituted tetracycline compound.

12.-35. **(Cancelled)**

36. **(Original)** The method of claim 1, wherein said substituted tetracycline compound is of the formula (I):



wherein

R^2 , $R^{2'}$, $R^{4'}$, and $R^{4''}$ are each independently hydrogen, alkyl, alkenyl, alkynyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, arylalkyl, aryl, heterocyclic, heteroaromatic or a prodrug moiety;

$R^{2'}$, R^3 , R^{10} , R^{11} and R^{12} are each hydrogen, alkyl, alkenyl, alkynyl, substituted carbonyl, or a pro-drug moiety;

R^4 is $NR^{4'}R^{4''}$, alkyl, alkenyl, alkynyl, hydroxyl, halogen, or hydrogen;

R^5 is hydroxyl, hydrogen, thiol, alkanoyl, aroyl, alkaroyl, aryl, heteroaromatic, alkyl, alkenyl, alkynyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, arylalkyl, alkyl carbonyloxy, or aryl carbonyloxy;

R^6 and $R^{6'}$ are each independently hydrogen, methylene, absent, hydroxyl, halogen, thiol, alkyl, alkenyl, alkynyl, aryl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, or an arylalkyl;

R^7 is hydrogen, hydroxyl, halogen, thiol, nitro, alkyl, alkenyl, alkynyl, aryl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, arylalkyl, amino, arylalkenyl, arylalkynyl, acyl, aminoalkyl, heterocyclic, thionitroso, or $-(CH_2)_{0-3}NR^{7c}C(=W')WR^{7a}$;

R^8 is hydrogen, hydroxyl, halogen, thiol, nitro, alkyl, alkenyl, alkynyl, aryl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, amino, arylalkenyl, arylalkynyl, acyl, aminoalkyl, heterocyclic, thionitroso, or $-(CH_2)_{0-3}NR^{8c}C(=E')ER^{8a}$;

R^9 is hydrogen, hydroxyl, halogen, thiol, nitro, alkyl, alkenyl, alkynyl, aryl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, arylalkyl, amino, arylalkenyl, arylalkynyl, acyl, aminoalkyl, heterocyclic, thionitroso, or $-(CH_2)_{0-3}NR^{9c}C(=Z')ZR^{9a}$;

$R^{7a}, R^{7b}, R^{7c}, R^{7d}, R^{7e}, R^{7f}, R^{8a}, R^{8b}, R^{8c}, R^{8d}, R^{8e}, R^{8f}, R^{9a}, R^{9b}, R^{9c}, R^{9d}, R^{9e}$, and R^{8f} are each independently hydrogen, acyl, alkyl, alkenyl, alkynyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, arylalkyl, aryl, heterocyclic, heteroaromatic or a prodrug moiety;

R^{13} is hydrogen, hydroxy, alkyl, alkenyl, alkynyl, alkoxy, alkylthio, aryl, alkylsulfinyl, alkylsulfonyl, alkylamino, or an arylalkyl;

E is $CR^{8d}R^{8e}$, S, NR^{8b} or O;

E' is O, NR^{8f} , or S;

W is $CR^{7d}R^{7e}$, S, NR^{7b} or O;

W' is O, NR^{7f} , or S;

X is $CHC(R^{13}Y'Y)$, $C=CR^{13}Y$, $CR^{6'}R^6$, S, NR^6 , or O;

Y' and Y are each independently hydrogen, halogen, hydroxyl, cyano, sulfhydryl, amino, alkyl, alkenyl, alkynyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, or an arylalkyl;

Z is $CR^{9d}R^{9e}$, S, NR^{9b} or O;

Z' is O, S, or NR^{9f} , and pharmaceutically acceptable salts, esters and enantiomers thereof.

37. **(Original)** The method of claim 36, wherein $R^2, R^{2'}, R^8, R^{10}, R^{11}$, and R^{12} are each hydrogen, X is $CR^6R^{6'}$, and R^4 is $NR^{4'}R^{4''}$, wherein $R^{4'}$ and $R^{4''}$ are each methyl.

38. **(Original)** The method of claim 37, wherein R^9 is hydrogen.

39. **(Original)** The method of claim 38, wherein R^7 is substituted or unsubstituted aryl.

40. **(Original)** The method of claim 39, wherein R^7 is substituted or unsubstituted phenyl.

41. **(Original)** The method of claim 40, wherein R^7 is substituted with one or more substituents.

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57. (New) The method of claim 1, wherein said tetracycline compound is:

